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NOTICE OF ALLOWANCE AND FEE(S) DUE

23373 7590 03/26/2008 **SUGHRUE MION. PLLC**

2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037 EXAMINER
PHU, SANH D

ART UNIT PAPER NUMBER

2618

DATE MAILED: 03/26/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/769,793	02/03/2004	Masahiro Inoue	O79163	9251

TITLE OF INVENTION: DEDICATED SHORT-RANGE COMMUNICATION ON-VEHICLE APPARATUS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	06/26/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

appropriate. All further indicated unless correct maintenance fee notifica	correspondence includir ed below or directed oth	ng the Patent, advance of herwise in Block 1, by (orders and notification of r (a) specifying a new corres	naintenance fees v pondence address	vill be ; and/o	mailed to the current (b) indicating a sepa	correspondence address as rate "FEE ADDRESS" for
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SUITE 800	LVANIA AVENUE	I he Stat addı tran	reby certify that thes Postal Service v	is Fee(s) Transmittal is being	deposited with the United t class mail in an envelope above, or being facsimile ate indicated below.	
WASHINGTON	N, DC 20037						(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTC	RNEY DOCKET NO.	CONFIRMATION NO.
10/769,793	02/03/2004	•	Masahiro Inoue			Q79163	9251
TITLE OF INVENTION	: DEDICATED SHORT	-RANGE COMMUNIC	ATION ON-VEHICLE AI	PPARATUS			
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APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0		\$1740	06/26/2008
EXAM	MINER	ART UNIT	CLASS-SUBCLASS				
PHU, S	ANH D	2618	455-345000				
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☐ "Fee Address" ind	lication (or "Fee Address	" Indication form					
PTO/SB/47; Rev 03-0 Number is required.	O2 or more recent) attach	ned. Use of a Customer	2 registered patent atto listed, no name will be	rneys or agents. If printed.	no nan	ne is 3	
3. ASSIGNEE NAME A	ND RESIDENCE DATA	A TO BE PRINTED ON	THE PATENT (print or type	pe)			
PLEASE NOTE: Un	less an assignee is ident	ified below, no assignee	data will appear on the p OT a substitute for filing an	atent. If an assign	ee is id	lentified below, the do	ocument has been filed for
(A) NAME OF ASSI	•	piction of this form is ive	(B) RESIDENCE: (CITY	Ü	COUNT	RY)	
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Please check the appropr	riate assignee category or	categories (will not be p	rinted on the patent):	Individual 🖵 Co	orporat	on or other private gro	up entity 🔲 Government
4a. The following fee(s)	are submitted:	4	b. Payment of Fee(s): (Plea	se first reapply a	ny prev	viously paid issue fee s	shown above)
☐ Issue Fee			☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached.				
☐ Publication Fee (No small entity discount permitted)☐ Advance Order - # of Copies			The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any				
			overpayment, to Depo	sit Account Numb	er	(enclose a	n extra copy of this form).
5. Change in Entity Sta a. Applicant claim	i tus (from status indicate is SMALL ENTITY stati	· · · · · · · · · · · · · · · · · · ·	☐ b. Applicant is no lon	ger claiming SMA	LL EN'	ΓΙΤΥ status. See 37 CF	FR 1.27(g)(2).
NOTE: The Issue Fee an	d Publication Fee (if req	uired) will not be accepte	ed from anyone other than t				e assignee or other party in
interest as shown by the	records of the United Sta	ites Patent and Trademar	k Office.				
Authorized Signature				Date			
Typed or printed name				Registration N	No		
This collection of inform	nation is required by 37 C	CFR 1.311. The informati	on is required to obtain or i	etain a benefit by t	he pub	lic which is to file (and	by the USPTO to process)
an application. Confiden submitting the complete this form and/or suggest: Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this bu. Virginia 22313-1450. DC	U.S.C. 122 and 37 CFR USPTO. Time will var rden, should be sent to the ONOT SEND FEES OR	1.14. This collection is est y depending upon the indiv ne Chief Information Office COMPLETED FORMS TO	imated to take 12 ridual case. Any co er, U.S. Patent and D THIS ADDRESS	minute: ommen Trader S. SEN	s to complete, including s on the amount of tir- nark Office, U.S. Depa D TO: Commissioner t	g gathering, preparing, and ne you require to complete artment of Commerce, P.O. For Patents, P.O. Box 1450,

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/769,793 02/03/2004		Masahiro Inoue	Q79163	9251
23373 7:	590 03/26/2008		EXAM	INER
SUGHRUE MIC	N, PLLC	PHU, SANH D		
	ANIA AVENUE, N.W	ART UNIT	PAPER NUMBER	
SUITE 800 WASHINGTON, 1	DC 20037		2618 DATE MAILED: 03/26/200	8

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 544 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 544 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
	10/769.793	INOUE, MASAHIRO
Notice of Allowability	Examiner	Art Unit
	 /Sanh D. Phu/	2618
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject	oplication. If not included on will be mailed in due course. THIS
1. 🔀 This communication is responsive to the Amendment filed	<u>on 2/4/2008</u> .	
2. ☑ The allowed claim(s) is/are <u>1 and 3-17</u> .		
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 	e been received.	
3. Copies of the certified copies of the priority do	cuments have been received in this	s national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	IENT of this application.	
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) I including changes required by the Notice of Draftspers	- ,	0-948) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal	Patent Application
 Notice of Preferences Sited (175 332) DNotice of Draftperson's Patent Drawing Review (PTO-948) 	6. ☐ Interview Summar	y (PTO-413),
3. ☑ Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Da 7.	ate Iment/Comment
Paper No./Mail Date <u>12/26/07</u> 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Statem	nent of Reasons for Allowance
or biological material	9.	

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1. This Office Action is responsive to the Amendment filed on 2/4/2008.

REASONS FOR ALLOWANCE

- 2. Claims 1, 3–17 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

Claims 1, 3-17 are allowable over the prior art of record for the reason as stated in the Applicant's Remark dated on 2/4/20078 pages 8-9 and the reasons as below:

Regarding to claim 1, none of the prior art of record teaches or suggests a dedicated short-range communication on-vehicle apparatus mounted on a motor vehicle in a dedicated short-range communication system for an intelligent traffic system, comprising: a box-like housing for housing therein an antenna, a radio module and a data processing unit in a unitary structure; wherein said box-like housing is adapted to be fixedly attached onto a windshield of the motor vehicle with a mounting plate being disposed on the radiation side of said antenna by means of an adhesive member; and wherein at least a radio wave aperture portion of said mounting plate is made of a radio

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wave transmission material, said dedicated short-range communication on-vehicle apparatus further comprising: a substrate on which at least one of said radio module and said data processing unit is mounted, wherein when said antenna is so set as to be transmissible in a direction orthogonal to said substrate, a substrate surface region located above an antenna transmissive planar region is greater than a substrate surface region located beneath said antenna transmissive planar region. It would not have been obvious for a person skilled in the art to combine other prior arts of record in order to arrive at the claimed invention.

Regarding to claim 3, none of the prior art of record teaches or suggests a dedicated short-range communication on-vehicle apparatus mounted on a motor vehicle in a dedicated short-range communication system for an intelligent traffic system, comprising: a box-like housing for housing therein an antenna, a radio module and a data processing unit in a unitary structure; wherein said box-like housing is adapted to be fixedly attached onto a windshield of the motor vehicle with a mounting plate being disposed on the radiation side of said antenna by means of an adhesive member; and wherein at

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least a radio wave aperture portion of said mounting plate is made of a radio wave transmission material, wherein said antenna, said radio module and said data processing unit are mounted on one and the same substrate, and wherein the area of a substrate surface region located above said antenna is selected greater than a substrate surface region located below said antenna. It would not have been obvious for a person skilled in the art to combine other prior arts of record in order to arrive at the claimed invention.

Regarding to claim 12, none of the prior art of record teaches or suggests a dedicated short-range communication on-vehicle apparatus mounted on a motor vehicle in a dedicated short-range communication system for an intelligent traffic system, comprising: a box-like housing for housing therein an antenna, a radio module and a data processing unit in a unitary structure; wherein said box-like housing is adapted to be fixedly attached onto a windshield of the motor vehicle with a mounting plate being disposed on the radiation side of said antenna by means of an adhesive member; and wherein at least a radio wave aperture portion of said mounting plate is made of a radio wave transmission material, said dedicated short-range communication on-

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vehicle apparatus further comprising: a label carrying predetermined information and designed to be stuck on said mounting plate; and a seal stuck on said mounting plate so as to cover said label. It would not have been obvious for a person skilled in the art to combine other prior arts of record in order to arrive at the claimed invention.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sanh D. Phu whose telephone number is (571)272–7857. The examiner can normally be reached on M-Fr from 8:00–16:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung can be reached on (571) 272–7882. The fax phone number for the organization where this application or proceeding is assigned is 571–273–8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866–217–9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800–786–9199 (IN USA OR CANADA) or 571–272–1000.

/Sanh D Phu/ Primary Examiner Art Unit 2618 Application/Control Number: 10/769,793

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